[002] This application claims priority from German Application Serial No. 102 49 484.3 filed October 24, 2002.

[003] FIELD OF THE INVENTION

[004] ~~According to the preamble of claim 1, t~~This invention concerns a power distributed 2-range transmission which comprises one frictional wheel variator.

[005] BACKGROUND OF THE INVENTION

[012] ~~This problem is solved by the characteristic features of claim 1. Other developments and advantages result from the sub-claims.~~

[013] SUMMARY OF THE INVENTION

[019] BRIEF DESCRIPTION OF THE DRAWING

[020] The invention ~~is explained in detail herebelow~~ will now be described, by way of example, with reference to the ~~enclosed figure~~ accompanying drawings in which:

[021] Fig. 1 shows a diagrammatic representation of a preferred embodiment of the inventive transmission and is particularly adequate for a vehicle having front engine and rear drive.

[022] DETAILED DESCRIPTION OF THE INVENTION

1-8. (CANCELED)

9. (NEW) A power distributed 2-range transmission comprising

a frictional wheel variator (1),

a planetary gear (2) arranged coaxially to said frictional wheel variator (1) and detachably connectable therewith via one shifting element (K2) comprising

two shifting elements (Kr, K1) and

a lateral shaft (9) which connects said frictional wheel variator (1) with said planetary gear (2),

wherein said planetary gear (2) contains two minus planetary gear sets (3, 4).

10. (NEW) The power distributed 2-range transmission according to claim 9, wherein as frictional wheel variator a one-way frictional wheel variator is provided.

11. (NEW) The power distributed 2-range transmission according to claim 9 wherein in a first lower range input power is passed by an input shaft (15) via said frictional wheel variator (1), said lateral shaft (9) and said planetary gear (2) to an output shaft (8), one part of the input power in a second power range being passed by the input shaft (15) to an element (5) of said planetary gear (2) and one other part of the input power being passed via said frictional wheel variator (1) and said lateral shaft (9) to one other element (6) of said planetary gear (2).

12. (NEW) The power distributed 2-range transmission according to claim 11, wherein in the first power range the input power is passed via said frictional wheel variator (1), said lateral shaft (9), a sun gear (6) and a ring gear (7) of a first minus planetary gear set (3) of said planetary gear (2) to said output shaft (8) and that in the second power range one part of the input power is passed directly to a web (5) of said first minus planetary gear set (3) of said planetary gear (2), the second part of the input power being passed via said frictional wheel variator (1) and said lateral shaft (9) to said sun gear (6) of said first minus planetary gear set (3).

13. (NEW) The power distributed 2-range transmission according to claim 9, wherein said lateral shaft (9) is connected with said planetary gear (2) via a ratio reduction step (10).

14. (NEW) The power distributed 2-range transmission according to claim 9, wherein said shifting element (K1) produces in closed state a block operation of said planetary gear (2) for a first power range and that a clutch (K2) makes possible in

closed state in the second power range a direct connection of an input shaft (15) with said planetary gear (2).

15. (NEW) The power distributed 2-range transmission according to claim 9, wherein a web (5) of said first minus planetary gear set (3) can be detachably connected via a brake (Kr) with a housing (G), that a sun gear (6') of said second minus planetary gear set (4) can be detachably connected with said housing (G) via said brake (K1), that a ring gear (7') of said second minus planetary gear set (4) is connected with said web (5) of said first minus planetary gear set (3) and that a web (5') of said second minus planetary gear set (4) is connected with said ring gear (7) of said first minus planetary gear set (3) and of said output shaft (8).

16. (NEW) The power distributed 2-range transmission according to claim 9, wherein one Ravigneaux planetary gear set can be substituted for said minus planetary gear set (3, 4).